: Luje
is is [I, I]= I alling A val Co I. R adding do A ord A je alling to it
A je con Tich
1690
ICT CT D'S CO'S AS' COD L DT CO'S A S' SET T COPY
d(I) CI c'e very Azi is donne PI c'i Azi ci I C C'L
L=[[n, 7]; x, 8 c] } = [T, 7] = < f7 Cd
7=11,1)=12/11
Vacisa= Ejizis jiek 2; El
√a ∈ 1 ; a = €); x; :); € 2; € 2
2:=[J:,3:= : J:,3: EI
d(a)=d(& 7:2:)= & d(2:) = & 1 d(2:)
= 9 cx; y = 9 ([2:13:]] - [9(2:1)] + [2: q(2:1]
= 9(3:) [9(3:) 7:]
= 0/(3:) + = = = = = = = = = = = = = = = = = =
EP CZ EV
EJ EZ
=>d(a)=[]d(xi) =< 27=]
: ويادانه
د آذا کی ایس ایس ایس کرد ایس کرد
MacRi = { (ais) i ais (R?
فرعة المحسن من الرسة من الرسة مع دان عن جوم من اعلقة ع
of the first of th

: 151
(aij)+(bij) = (aij + bij) (aij + bij)
ال الم الم الم الم الم الم الله الله الل
·: R x Mn (R) M_(R) ·· (r, (a;i)) (r. (a;i)) (r. a;i)
7 7, 72-ER 015 (MECR)
() (·)+) + ((), () - (), ();) - (), ();)
= (],a;j)+(],a;j)
7 ((ais) + (bis) = 7. (ais+bis) = (fais+) bisi)
= ()a;j) + () bij) =) (a;j) +) (b;j)
A J. M E R A ais E Ma (B)
) (m(a; j) -) (ma; j) - () (ma; j)) - () (a; j)) - (() (a; j)) - () (a;
1. (a; j) = (1-a; j) = a; j R. exceloses Mn(P) Chais
· Macrix macri · Macrix macri · (A-R) - A-R-AB-BA

The same and the same and

الأجل حل المدول ١٩١٨م همرك المن ولية فهرب السي
[-]: Mn (R) xmn(R) -> mn(R)
(AB) - CAB) = AB-BA
WEALD-AA-AA = U YACM-(A)
€ VABCEMMER):[A+B, c]=
= (A+B).c - C(A+D)
= A.C+BC-CA-CB
= [A, c] + [B, c]
= - 1/1, 25/10 cm' 5 c : 21/201 c - C/1/20 50 cine
[A, B+c] = [A, B] + [A, c].
YXER [XA,B] = (XA)B-B(XA)
= acho_ aloh
$= \alpha(AP) - \alpha(BA)$ $= \alpha(AB - BA) = \alpha(AB)$
[A, AD] = x [A,B] ilēmi Ezkleini
VA, D, C EMM(R) A, [B, C]] = A. (B, C] - [B, C].A
= A(BCEBS) - EDC-ED)A
= ARC ACP BCA+CBA ()
[B, [A]] = B[c,A] = [c,A]p
[이 문제
=B(cA-Ac)-[EA-Ac)B
= BCA-BACI-CAB+ACB) (0)

2(0,43.2) = [[0,43.2]
= C(AB-BA)_LAB_BA)C
ZICAP-CDA-ABC+BACIO
ars 3,00 è
C= [[a, 4],] + [[a, 4], a] + [[a, 4], a]
R ZILLE LA DE MACRICE SULLE
· sap voi ust stap
تَىنى: نَىنَ
المكن المجرك منه الملت البيارة والواهية المراع عنه المراع عنه المراع عنه المراع
[P,D]= [b,d] beb, dED]
H (1) - 13 (153) - 1 ()
is is A d'asi Pares B.D.K . R Ell, se's che A USA
(a) [a, a] = [a, a]
[B,D]=[D,B] $[B,D,k]=[B,k]+[D,k]$
[B. [k,D]] C.[k, [DD]] + [D, [D.k]]
EBAK, DJ S [BD] A [K, D] W
:C12/1
n=[b,d]=[d,b]=[-d,b]=[D,B]
n=[bd]=-[d,b]=[-d,b]=[D,B]
ED ED
منه (۱۳٫۵) و الرسون به نيس اروزوالماک

a EB+D REX 20 7 = [a, k] Lie 2E [B+D, k] isl a
Then den; a= b+d col,
n=[a, R]=[b+d, k]=[b, R]+[d, R][[n, k]+[n, k]
[B+0,k] c [B,k]+[D,k] cine
RE[B, K] Sup J = x+7 Jis YE[B, K] + [D, K] is
RE[B, k] inp J = x+7 jus y C [B, k] - [D, k] is
$2 \left\{ p, k \right\} \qquad 7 = \left\{ d, k_2 \right\}$
A PED GED - K, K, EX
J=2+Z=[b,k]+[d,k]
d= k+ t= L D, k, j+
7=x+= [b, k]-[d, k]+[d, k]+[d, k]
DERTE LONG TO
= [h 4 k 7 . [d k . k 7 . E [2 . \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
= [b-d,k,] + [d,k,+k] E[B+D,k]+[D,k]C
[B+P, K]
μ=[b,a]; b∈β α∈[k,d] is ze ∈ [B,[k,D]] is ω(3)
a=[R;d]; REK, dED C9>
x=[h, a]=[b, [k, a]]=-[k, [d, b]]-[d, [b, k]]
E[k, [D, D]] + [D, [D, K]]
Sign Lini
20 to 3 to 1 to 3 to 2 to 3 to 3 to 3 to 3 to 3 to 3